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MicroPatent[®] MPI Legal Status Report (Single Patent)

1. JP11001465A 19990106 PRODUCTION OF TROPOLONE DERIVATIVE

Assignee/Applicant: MITSUBISHI CHEM CORP**Inventor(s) :** TAKUMA YUUKI ; OKAMOTO KEN ; MIZUHO YUUJI ; MURAKAMI TAKESHI**Priority (No,Kind,Date) :** JP15341997 A 19970611 X**Application(No,Kind,Date):** JP15341997 A 19970611**IPC:** 6C 07C 309/64 A**Language of Document:** NotAvailable**Abstract:**

PROBLEM TO BE SOLVED: To readily produce the highly pure subject compound in a high yield by forming tropolones from a raw material and further subjecting the tropolones to a sulfonylation reaction without isolating the tropolones.

SOLUTION: (A) A compound of formula I [R 1-R5are each independently H, a halogen or an aliphatic or an aromatic hydrocarbon group (having a substituent); X1and X2are each a halogen independently] is heated in a carboxylic acid solvent containing a carboxylic acid salt of an acid binder to provide (B) tropolones of formula II, and the component B is further reacted with a sulfonylation agent (e.g. sulfonyl halide) without isolating the component B to provide sulfonyloxytropolones of formula III [R6is an aliphatic or an aromatic hydrocarbon group (having a substituent)] in the method for producing tropolone derivative. 7,7-dichlorobicyclo[3.2.0]hept- 2-en-6-one, etc., are exemplified as the component A. By the method, a raw material for an azulene derivative is provided.

Legal Status: There is no Legal Status information available for this patent

2. JP11060550A 19990302 PRODUCTION OF SULFONYLOXYTROPONE

Assignee/Applicant: MITSUBISHI CHEM CORP**Inventor(s) :** TAKUMA YUUKI ; OKAMOTO KEN ; MIZUHO YUUJI ; MURAKAMI TAKESHI**Priority (No,Kind,Date) :** JP22920997 A 19970826 X**Application(No,Kind,Date):** JP22920997 A 19970826**IPC:** 6C 07C 309/65 A**Language of Document:** NotAvailable**Abstract:**

PROBLEM TO BE SOLVED: To obtain the subject compound useful as a laser-absorption pigment of high purity in high yield through an industrially simple process by subjecting a tropolone to a specific treatment followed by sulfonylation reaction of the treated tropolone without isolation.

SOLUTION: A compound of formula I (R1-R 5are each H and the like; X1and X 2are each a halogen) as 7,7- dichlorobicyclo[3.2.0]hepto-2-ene-6-one, is allowed to react with a base as sodium hydroxide in a solvent as acetic acid to form a tropolone of formula II as tropolone. The reaction mixture without isolation of the tropolone is acidified by using a mineral acid as hydrochloric acid and extracted with an organic solvent as toluene or the like. Then, the extract is washed with a washing solution mainly comprising water as a saturated sodium chloride solution to remove the acidic components. Without

removal of the compound of formula II, the remaining extract is subjected to sulfonylation reaction to prepare the objective compound of formula III [R6 is a (substituted) aliphatic group], typically 2-(p-toluenesulfonyloxy) tropone.

Legal Status: There is no Legal Status information available for this patent
